WARREN ELECTRIC HEATERS WXD SERIES	INSTALLATION INSTRUCTIONS 06/29/2023	DAIKIN DBC 036-300, DBH 036-150 DRC 036-150, DRH 036-072 DFC 036-300, DFH 036-120 ROOFTOP UNITS

GENERAL

This electric heater series is engineered and designed, to be installedin the Daikin DBC / DBH / DRC / DRH / DFC / DFH rooftop units. Before proceeding, check the heater label for correct voltage and KW requirement.

Installation and servicing of this equipment should only be performed by trained and qualified personnel. Before proceeding with the heater installation, inspect thoroughly for shipping damage. Notify the shipper immediately if any damage is found. Check all porcelain insulators for breakage and inspect heater element wire to see that none have been deformed. Clean all dirt, dust and moisture from equipment. **Check for proper clearances of live parts, between phases, and to ground.** Make sure that all required barriers are in place. Check conductors run in multiple to insure that they are properly wired. Refer to installation instructions for complete unit installation details. **Verify that all elements are properly secure in their ceramic holders. Follow all safety codes, wear safety glasses and gloves**

WARNING ⚠

Before performing service or maintenance operations on system, turn off all main power switches. There may be more than one disconnect. Turn off accessory heater power switch if applicable. Electrical shock can cause personal injury. ***TAG DISCONNECT SWITCH(ES) WITH A SUITABLE WARNING LABEL.***

HEATER INSTALLATION

1. Refer to base unit installation instruction as required.
2. Remove unit control access panels (see fig. 1).
3. Remove heater module access panel (see fig. 1) located below the blower plenum.
4. Remove heater access cover plate.
5. Carefully install the heater into the opening by sliding the heater element section into the bay opening. Ensure that the heater is installed in the right orientation and that the support rods are inserted into the respective holes located inside the blower compartment. Fasten the heater plate with the screws removed in step 4.
6. Size the supply duct according to the discharge opening and connect the ductwork with field supplied screws. The air duct system should be designed and installed in accordance with the standards of the national protection association (Pamphlet 90A or 90B). A flexible duct connector is recommended to prevent transmission of vibration. Use suitable gaskets to ensure weather tight and air tight seal. If flexible duct is used, insert a sheet metal sleeve inside the duct. Heat resistant duct connector (or sheetmetal sleeve) must extend 24-in. from the unit connection flanges into the duct work.

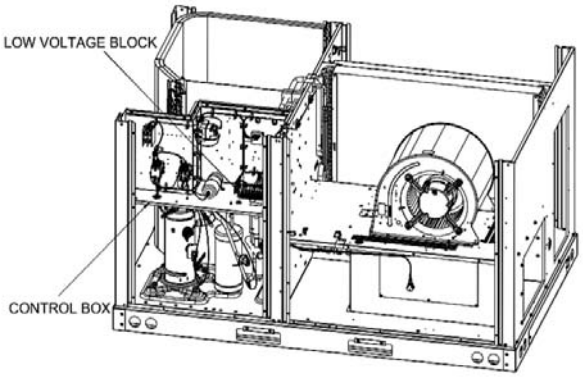

Fig. 1. Unit access panel locations

Fig. 2. Unit control compartment.

ELECTRICAL CONNECTIONS

1. All electrical connections, wire sizes and type and conduit sizes shall meet the National Electric Code, State and Local Codes. Main power supply, minimum wire sizes, circuits, fusing, etc. are shown on schematic wiring diagrams. **NOTE:** Use copper wire only.
2. Refer to base unit instructions for recommended wiring procedures.
3. Route wires from the heater control box to the heater element section. Tighten wire harness with clips and metal fastening belts located on the unit (see fig. 3). Installation requires a dual feed power supply to the heater and unit contactor for power connection.
4. **Low voltage control connections.** Connect the low voltage control wires from heater control plate to the matching polarized plug located inside the unit control compartment (see fig. 2).
5. Check wiring diagram affixed to the heater for specific connections and information .
6. Be sure that all electrical terminal connectors, clamps, screws, etc. are tight before proceeding.
7. Check operation as described in start-up section.

START-UP AND CHECK-OUT

CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cutout, this appliance must not be supplied through an external switching device, such as a timer,or connected to a circuit that is regularly switched on and off by the utility.

1. Refer to base unit installation instructions as required.
2. Check for loose terminal connections.
3. Check that all fuse short circuit interrupting ratings are adequate.
4. Turn on unit and heater power.
5. Set thermostat to call for heat.
6. Check operation of heater.
7. Check that air flow across heater is at or above minimum recommended fan speed.
8. Verify package unit) evaporator fan motor amperage against rated amperage, both in cooling and heating modes to check sequence of control operation.

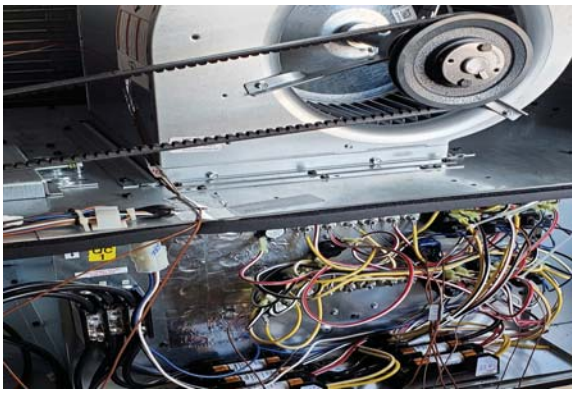

Fig. 3. Installed heater assembly.

Important: Use flexible connectors between ductwork and unit to prevent transmission of vibration. Use suitable gaskets to ensure weather tight and airtight seal. If flexible duct is used, insert a sheet metal sleeve inside the duct. Heat resistant duct connector (or sheet metal sleeve) must extend 24-in. from the unit connection flanges into the duct work.

9. Any modification or repairs to this equipment without written permission from the factory will be done at the installer's own risk and expense.

ELECTRIC HEATER PACKAGE CONTENTS

1. Heater assembly
2. Installation Instructions
3. Installer label
4. Wiring diagram

Note: The electric heater in this system contains a manually resettable over-temperature safety limit. In the event of a "NO HEAT" limit trip, check for possible issues with dirty filters, blocked outlets, or possible fan failure prior to resetting. To reset the limit circuit, simply turn the system off at the thermostat (or at the unit power circuit breaker) and then immediately turn the system back on. If a limit reset is required more than 2 times in a short period of time, consult a service technician before reenegizing the system.